from the	COOPERATION TREATY	是問門			
To: YOON, Dong Yol  9th Fl., Yosam Eldg, 648-23 Yoksam-dong, Ka Scoul 135-748 Republic of Korea	INTERNATIONAL SEARCHI	PCT  WRITTEN OPINION OF THE COLD  INTERNATIONAL SEARCHING AUTHORITY  (PCT Rule 43bis.1)			
	Date of mailing (day/month/year) 29 DECEMBER	2004 (29.12.2004)			
Applicant's or agent's file reference	FOR FURTHER ACTION	······································			
PCT-050326	See paragraph 2 belo	W			
	nal filing date (day/month/year)   Priority date(day/ E 2004 (01.06.2064)   26 MARCH 2004	• •			
International Patent Classification (IPC) or both					
IPC7 A61K 7/40					
Applicant					
AMOREPACIFIC CORPORATION	t al				
This opinion contains indications relating to     Box No. I Basis of the opinion	following items:				
Box No. 11 Priority					
	nion with regard to novelty, inventive step and industrial a	pplicability			
Bor No. IV Lack of unity of inver	n				
Box No. V Reasoned statement under Rule 43bis. I(a)(i) with regard to novelty, inventive step or industrial applicability citations and explanations supporting such statement					
Box No. VI Certain documents cit					
Box No. VII Certain defects in the	rnational application				
X Box No. VIII Certain observations of	e international application				
International Preliminary Examining Authoricother than this one to be the IPEA and the chopinions of this International Searching Authoriconal Searching Authori	to be a written opinion of the IPEA, the applicant is invite, with amendments, before the expiration of 3 months from the priority date, whichever expires late	nt chooses an Authority 6. Ibis(b) that written d to submit to the n the date of mailing			
3. For further details, see notes to Form PCT/IS	20.				

Name and mailing address of the ISA/KR Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu. Daejeon 302-701. Republic of Korea

Authorized officer

JUNG, Jin Wook





Extractional application No PCT/ER2004/001305

Be	Box No. 1 Basis of this opinion				
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.				
	This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).				
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:				
	a. type of material				
	a sequence listing				
	table(s) related to the sequence listing				
	b. format of material				
	in wirtten format				
	in computer readable form				
	c. time of filing/furnishing				
	contained in the international application as filed.				
	filed together with the international application in computer readable form.				
	furnished subsequently to this Authority for the purposes of search.				
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been				
	filed or furnished, the required statements that the information in the subsequent or additioanl copies is identical to that				
	in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.				
4.	Additional comments:				

International application 146.
PCT/LU2004/001300

Box No. V. Reasonce statement under Rule 43bis.1(a)(i) with regard to nevelty, inventive step or industrial applicability: citations and explanations supporting such statement

Novelty (N)	Claims	1 - 10	YES
	Claims	None	OM
Inventive step (IS)	Claims	1 - 10	YES
	Claims	None	NO.
Industrial applicability (iA)	Claims	1 - 10	ES
	Claims	None	NO

#### 2. Citations and explanations:

Reference is made to the following documents:

D1: KR 2003-64986 A D2: US 2003/162725 A1 D3: KR 2004-9983 A D4: US 6,277,396 B1

D5: US 6.437.004 B1

The present invention relates to a composition comprising an effective amount of Ginsenoside F1 and epigallocatechin-3-gallate for preventing skin damage.

D1 relates to a nanoemulsion comprising physiological active materials, such as epigallocatechin gallate and ginsenosides, using lipopeptide-based co-surfactant and a cosmetic composition containing the same.

D2 relates to a pharmaceutical composition comprising an effective amount of epigallocatechin gallate and ginseng root for treating obesity.

D3 relates to an extract, which is isolated from *Betula platyphyila var. japonica*, having the anti-oxidation effect and the anti-cancer activity.

D4 relates to a dietary supplement comprising the active ingredients such as epigallocatechins and ginseng root extracts.

D5 relates to a method for treatment of a skin damage using olive oil polyphenols.

#### 1. Novelty

The subject matter of the present claims 1-10 is novel over the above D1-D5 and meets the criteria set out in PCT Article 33(2), because none of the prior art describes the composition comprising both Ginsenoside F1 and epigallocatechin-3-gallate for preventing skin damage recited in the present claims.

See Supplemental Box for the next parts.

International application (io.

PCT/kF2004/001303

56), No. VIII	Certain	observations	on the	international	application
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The following observations on the clarity of the el	ing, description, and drawings	or on the question whether	the clamis rie full;
tupported by the description, are made:			

"An inhibitor of the dephosphorylation of Rb protein..." in claim 8 does not define the matter for which protection is sought clearly due to the functional expression.

International application Ho.

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In case the space in any of the preceding boxes is not sufficient. Continuation of :

 $V_{-}$ 

### 2. Inventive step

The subject matter of the present claims 1-10 complies with PCT Article 33(3), since the prior art including the above D1-D5 does not teach or fairly suggest that the composition comprising both Ginsenoside F1 and epigallocatechin-3-gallate can remarkably prevent skin damage from UV-B by control of expressing Bcl-2 and Etn-3a; and remarkably prevent cell death from UV-B by inhibiting the dephosphorylation of Rb protein compared with the composition comprising Ginsenoside F1 or epigallocatechin-3-gallate.

### 3. Industrial applicability

Claims 1-10 also meet the criteria set out in PCT Article 33(4) and consequently, these claims are considered to be industrially applicable.